



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Collagen Type I, rat

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[nordicmubio.com/product/collagen-type-i-rat-2](http://nordicmubio.com/product/collagen-type-i-rat-2)

Catalogue number: **CO20141-0.1**

|              |  |
|--------------|--|
| Product Type | Primary Antibodies   |
| Units        | 0.1 ml   |
| Host         | Rabbit   |
| Application  | ELISA<br>Immunofluorescence<br>Immunohistochemistry (paraffin)<br>Radioimmunoassay<br>Western Blotting |

### Background

Type I Collagen usually exists as a heterotrimer formed by alpha 1(I) and alpha 2(I) chains and is found in bone, cornea, skin and tendon. In foetal tissues also homotrimers of alpha-1(I) are found, but they are not constituents of normal adult tissues. Collagens consist of a family of highly specialized glycoproteins of which at least 16 genetically distinct types are known to date. The basal unit of a collagen molecule consists of a triple-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxyproline. Regularly also lysines and hydroxylysines occur, which are responsible for cross-linkage and glycosylation of the protein chains. Different composition of alpha-chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Rat collagen type I 100%, rat collagen II, III, IV and V <0.1%; rat elastin and fibronectin <0.1% (RIA at 1:200 dilution).

### Source

*Immunogen:* Purified collagen type I from rat skin

### Product

affinity purified antibody lyophilized from phosphate buffered solution; no BSA and preservative added!

*Purification Method:* affinity purified antibody lyophilized from phosphate buffered solution; no BSA and preservative added!

*Concentration:* app. 1 mg/ml

*Secondary Reagents:* Anti-rabbit IgG-conjugates, e.g. anti-rabbit IgG:FITC (Art. No. FI-1000) or anti-rabbit IgG:DyLight488 (Art. No. DI-1488).

## **Specificity**

*Species Reactivity:* Rat (human, mouse, chicken collagen type I <0.1%)

## **Applications**

IHC(P), IFA, ELISA, RIA, IB/WB

*Incubation Time:* IHC(P) 60 min at RT or 2-8°C over night

*Working Concentration:* (purified, lyophilized) IFA ? 1:80, IHC(P) ? 1:500, ELISA ? 1:200 (OD ? 500)

*Pre-Treatment:* After de-waxing the tissue slices they are treated with 0.2% hyaluronidase (app. 300 U/mg e.g. Art. No. HYA02-50) in TBS 15 min at 37°C. Thereafter non-specific binding is blocked by blocking serum or 3% BSA in TBS. For peroxidase systems blocking with 1% peroxide solution in TBS for 30 min at RT is recommended.

*Positive Control:* Rat skin

## **Storage**

-20°C

## **Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

## **References**

1. Al Adnani M.S. (1989) Differential immunohistochemical localization of cytokeratins and collagen types I and III in experimentally-induced cirrhosis. *J. Pathol.* 159, 151-158.
2. Vialle-Presles M.J., Hartmann D.J., Franc S., Herbage D (1989) Immunohistochemical study of the biological fate of a subcutaneous bovine collagen implant in rat. *Histochemistry* 91, 177-184.
3. Breen E., Falco V.M., Absher M., Cutroneo K.R. (1990) Subpopulations of rat lung fibroblasts with different amounts of type I and type III collagen mRNAs. *J. Biol. Chem.* 265, 6286-6290.
4. Bouvier M., Couble M.L., Hartmann D.J., Magloire H. (1991) Isolation and characterization of rat alveolar bone cells. *Cell Mol. Biol.* 37, 509-517

## **Protein Reference(s)**

*Database Name:* UniProt

*Accession number:* P02454